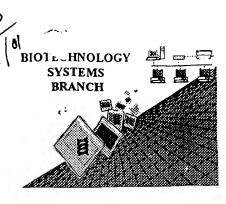
## RAW SEQUENCE LISTING ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/732,436

Source: 09/732,436

**BEST AVAILABLE COPY** 

Date Processed by STIC:

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216, PATENTIN 2.1 e-mail help: <a href="mailto:patin21help@uspto.gov">patin21help@uspto.gov</a> or phone 703-306-4119 (R. Wax)
PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER</u> <u>VERSION 3.0 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

## **Checker Version 3.0**

The Checker Version 3.0 application is a state-of the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:

http://www.uspto.gov/web/offices/pac/checker

## Raw Sequence Listing Error Summary

## ERROR DETECTED SUGGESTED CORRECTION

SERIAL NUMBER: 09/732,436

AIIN	: NEW RULES CASES: P	LEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE									
1	Wrapped Nucleics	The number/text at the end of each line "wrapped" down to the next line.									
		This may occur if your file was retrieved in a word processor after creating it.									
		Please adjust your right margin to .3, as this will prevent "wrapping".									
2	Wrapped Aminos	The amino acid number/text at the end of each line "wrapped" down to the next line.									
		This may occur if your file was retrieved in a word processor after creating it.									
		Please adjust your right margin to .3, as this will prevent "wrapping".									
3	Incorrect Line Length	The rules require that a line not exceed 72 characters in length. This includes spaces.									
4	Misaligned Amino Acid	The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs									
	Numbering	between the numbering. It is recommended to delete any tabs and use spacing between the numbers.									
5	Non-ASCII	This file was not saved in ASCII (DOS) text, as required by the Sequence Rules.									
		Please ensure your subsequent submission is saved in ASCII text so that it can be processed.									
6	Variable Length	Sequence(s) contain n's or Xaa's which represented more than one residue.									
		As per the rules, each n or Xaa can only represent a single residue.									
		Please present the maximum number of each residue having variable length and									
	•	indicate in the (ix) feature section that some may be missing.									
7	Patentin ver. 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid									
		sequence(s) Normally, Patentin would automatically generate this section from the									
		previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section									
		to the subsequent amino acid sequence. This applies primarily to the mandatory <220>-<223>									
		sections for Artificial or Unknown sequences.									
8	Skipped Sequences	Sequence(s) missing. If intentional, please use the following format for each skipped sequence:									
	(OLD RULES)	(2) INFORMATION FOR SEQ ID NO:X:									
		(i) SEQUENCE CHARACTERISTICS:(Do not insert any headings under "SEQUENCE CHARACTERISTICS")									
		(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X:									
		This sequence is intentionally skipped									
		Please also adjust the "(iii) NUMBER OF SEQUENCES:" response to include the skipped sequence(s).									
9	Skipped Sequences	Sequence(s) missing. If intentional, please use the following format for each skipped sequence.									
,	(NEW RULES)	<210> sequence id number									
\		<400> sequence id number									
, <b>\</b>		000									
$\circ \underline{\bigcup}$	Use of n's or Xaa's	Use of n's and/or Xaa's have been detected in the Sequence Listing.									
	(NEW RULES)	Use of <220> to <223> is MANDATORY if n's or Xaa's are present.									
		In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.									
1 1	Use of "Artificial"	Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules.									
·	(NEW RULES)	Valid response is Artificial Sequence.									
$\mathcal{J}$											
2	Use of <220>Feature	Sequence(s) are missing the <220>Feature and associated headings.									
	(NEW RULES)	Use of <220> to <223> is MANDATORY if <213>ORGANISM is "Artificial Sequence" or "Unknown"									
		Please explain source of genetic material in <220> to <223> section.									
		(See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of new Rules)									
3	Patentin ver. 2.0 "bug"	Please do not use "Copy to Disk" function of Patentln version 2.0. This causes a corrupted									
		file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing).									
	•	Instead, please use "File Manager" or any other means to copy file to floppy disk.									

AMC - Biotechnology Systems Branch - 4/06/2001

```
RAW SEQUENCE LISTING DATE: 04/16/2001 PATENT APPLICATION: US/09/732,436 TIME: 11:45:51
```

Input Set: A:\Cura-615.app

Output Set: N:\CRF3\04162001\I732436.raw

Does Not Comply
Corrected Diskette Needed

```
3 <110> APPLICANT: Prayaga, Sudhirdas
         Shimkets, Richard
 6 <120> TITLE OF INVENTION: NOVEL INTERFERON OMEGA AND NUCLEIC ACIDS ENCODING SAME
 8 <130> FILE REFERENCE: 15966-615
10 <140> CURRENT APPLICATION NUMBER: 09/732,436
11 <141> CURRENT FILING DATE: 2000-12-07
13 <150> PRIOR APPLICATION NUMBER: 60/169,887
14 <151> PRIOR FILING DATE: 1999-12-09
16 <150> PRIOR APPLICATION NUMBER: 60/170,230
17 <151> PRIOR FILING DATE: 1999-12-10
19 <160> NUMBER OF SEQ ID NOS: 22
21 <170> SOFTWARE: PatentIn Ver. 2.0
23 <210> SEQ ID NO: 1
24 <211> LENGTH: 475
25 <212> TYPE: PRT
26 <213> ORGANISM: Artificial Sequence
28 <220> FEATURE:
29 <223> OTHER INFORMATION: Description of Artificial Sequence: Curagen clone
30
         AC015663_A
32 <400> SEQUENCE: 1
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36 Cys Thr Gly Gly Thr Gly Gly Cys Ala Thr Thr Gly Gly Thr Gly Ala
37
39 Thr Gly Ala Thr Cys Thr Cys Cys Thr Gly Cys Cys Ala Cys Ala Thr
            35
                                40
42 Cys Thr Ala Thr Thr Cys Cys Cys Thr Thr Thr Thr Cys Thr Gly Cys
      50
                            55
45 Gly Ala Cys Cys Thr Gly Cys Cys Thr Ala Ala Ala Gly Cys Thr Cys
48 Ala Gly Gly Thr Gly Ala Thr Thr Cys Thr Gly Cys Cys Cys Thr
49
                    85
                                        90
                                                            95
51 Cys Cys Ala Thr Ala Ala Gly Ala Thr Gly Cys Ala Cys Cys Ala Gly
52
               100
                                   105
                                                       110
54 Cys Ala Gly Ala Thr Cys Thr Thr Cys Ala Gly Cys Cys Thr Cys Thr
55
           115
                               120
                                                   125
57 Thr Thr Thr Ala Cys Ala Cys Ala Ala Gly Gly Cys Thr Thr
                           135
60 Gly Thr Cys Thr Gly Ala Thr Gly Cys Thr Thr Gly Gly Ala Ala Thr
                       150
                                           155
63 Ala Gly Gly Cys Cys Thr Thr Cys Cys Thr Gly Gly Ala Cys Ala
                   165
                                       170
                                                           175
66 Ala Ala Cys Thr Cys Cys Ala Gly Ala Cys Thr Gly Gly Ala Thr Thr
                                   185
69 Thr Cys Ala Thr Cys Ala Gly Cys Ala Gly Cys Thr Gly Gly Ala Ala
           195
                               200
72 Gly Ala Cys Cys Thr Gly Gly Ala Gly Ala Cys Cys Thr Gly Cys Thr
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RAW SEQUENCE LISTING DATE: 04/16/2001 PATENT APPLICATION: US/09/732,436 TIME: 11:45:51

Input Set : A:\Cura-615.app

Output Set: N:\CRF3\04162001\1732436.raw

```
210
                         215
75 Thr Thr Gly Gly Thr Ala Thr Ala Gly Ala Gly Gly Ala Thr Gly Gly
76 225
             230
                                       235
78 Gly Ala Ala Gly Cys Ala Ala Gly Ala Gly Thr Cys Thr Gly Cys Cys
                         : 250
                245
81 Cys Thr Gly Gly Ala Ala Ala Thr Thr Gly Ala Gly Gly Cys Cys
            260
                               265
84 Cys Thr Ala Cys Ala Cys Thr Gly Gly Cys Cys Ala Thr Ala Ala Ala
                           280
87 Gly Ala Gly Gly Thr Ala Cys Thr Thr Cys Cys Ala Gly Gly Ala
              295
                                          300
90 Gly Thr Ala Cys Ala Thr Thr Thr Cys Thr Thr Cys Thr Thr Gly Ala
                                      315
                    310
93 Ala Ala Gly Ala Gly Ala Gly Gly Ala Ala Ala Thr Thr Cys Ala Gly
                 325
96 Gly Ala Ala Cys Thr Gly Thr Ala Cys Cys Thr Gly Gly Ala Gly
97
              340
                                345
99 Gly Thr Thr Gly Thr Cys Gly Thr Ala Ala Thr Gly Gly Thr Ala Ala
100 355
                             360
                                               365
102 Ala Gly Gly Gly Ala Thr Thr Thr Thr Cys Thr Thr Ala Ala Gly
103 370
                          375
105 Cys Ala Cys Ala Ala Ala Ala Cys Thr Thr Cys Ala Ala Gly Ala Ala
                     390
                                        395
108 Ala Ala Ala Gly Ala Gly Ala Ala Cys Ala Gly Ala Ala Gly Ala Ala
                  405
                                    410
111 Ala Ala Gly Ala Gly Ala Ala Cys Thr Gly Cys Ala Ala Ala Ala Ala
112
             420
                                425
                                                   430
114 Ala Ala Ala Thr Cys Thr Gly Gly Ala Ala Ala Gly Gly Thr Ala
115 435
                             440
117 Ala Thr Cys Thr Ala Thr Thr Ala Gly Cys Ala Gly Ala Ala Gly
118 450
                      455
120 Ala Gly Thr Gly Ala Ala Gly Cys Thr Gly
121 465
                     470
124 <210> SEQ ID NO: 2
125 <211> LENGTH: 610
126 <212> TYPE: PRT
127 <213> ORGANISM: Artificial Sequence
129 <220> FEATURE:
130 <223> OTHER INFORMATION: Description of Artificial Sequence: Curagen clone
132 <400> SEQUENCE: 2
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136 Cys Thr Gly Gly Thr Gly Gly Cys Ala Thr Thr Gly Gly Thr Gly Ala
139 Thr Gly Ala Thr Cys Thr Cys Cys Thr Gly Cys Cys Ala Cys Ala Thr
140 35
                             40
142 Cys Thr Ala Thr Thr Cys Cys Cys Thr Thr Thr Thr Cys Thr Gly Cys
143 50
                          55
145 Gly Ala Cys Cys Thr Gly Cys Cys Thr Asn Asn Asn Asn Asn Asn Asn
```

DATE: 04/16/2001 RAW SEQUENCE LISTING PATENT APPLICATION: US/09/732,436 TIME: 11:45:51

Input Set : A:\Cura-615.app
Output Set: N:\CRF3\04162001\I732436.raw

146	65					70					75					80
		Asn	λen	λen	λen		λen	λen	λen	Men		λen	λen	λen	λan	
149	ASII	กอก	non	Non	85	ASII	ASII	Hon	ASII	90	ASII	A311	ASII	H2II	95	non
	Asn	Asn	Asn	Asn		Asn	Asn	Asn	Asn		Asn	Asn	Asn	Asn		Asn
152				100					105					110		
	Asn	Asn	Asn		Asn	Agn	Asn	Asn		Asn	Asn	Asn	Asn		Asn	Agn
155			115					120	11011				125			
	Asn	Asn		Asn	Asn	Asn	Asn		Asn	Asn	Asn	Asn		Asn	Asn	Asn
158		130					135					140				
	Asn	Asn	Asn	Asn	Asn	Asn		Asn	Asn	Asn	Asn		Asn	Asn	Asn	Asn
	145					150					155					160
		Asn	Asn	Asn	Asn		Asn	Asn	Asn	Asn		Asn	Asn	Asn	Asn	
164					165					170					175	
	Asn	Asn	Asn	Asn		Asn	Asn	Asn	Asn		Asn	Asn	Asn	Asn		Asn
167				180					185					190		
	Asn	Asn	Asn		Asn	Asn	Asn	Asn		Asn	Asn	Asn	Asn		Asn	Asn
170			195					200					205			
	Ala	Ala	Ala	Glv	Cvs	Thr	Cvs		Glv	Glv	Thr	Glv		Thr	Thr	Thr
173		210		_	_		215		- 1	• •		220				
175	Cvs	Thr	Glv	Cvs	Cvs	Cvs	Thr	Cvs	Cvs	Ala	Thr	Ala	Ala	Glv	Ala	Thr
	225			- 4 -		230		- 2 -	-1-		235			4		240
178	Gly	Cys	Ála	Cys	Cys	Ala	Gly	Cvs	Ala	Gly	Ala	Thr	Cvs	Thr	Thr	
179	•	-		*	245		- 4	- 2		250			- 4		255	- 4 -
181	Ala	Gly	Cys	Cys		Cys	Thr	Thr	Thr	Thr	Thr	Ala	Cys	Ala	Cys	Ala
182		-	-	260		-			265				-	270	-	
184	Ala	Gly	Gly	Gly	Cys	Thr	Thr	Gly	Thr	Cys	Thr	Gly	Ala	Thr	Gly	Cys
185		_	275	_	_			280		-		-	285		_	-
187	Thr	Thr	Gly	Gly	Ala	Ala	Thr	Ala	Gly	Gly	Gly	Cys	Cys	Thr	Thr	Cys
188		290	_				295					300	_			_
190	Cys	Thr	Gly	Gly	Ala	Cys	Ala	Ala	Ala	Cys	Thr	Cys	Cys	Ala	Gly	Ala
	305					310					315					320
193	Cys	Thr	Gly	Gly	Ala	Thr	Thr	Thr	Cys	Ala	Thr	Cys	Ala	Gly	Cys	Ala
194					325					330					335	
196	Gly	Cys	Thr	Gly	Gly	Ala	Ala	Gly	Ala	Cys	Cys	Thr	Gly	Gly	Ala	Gly
197				340					345					350		
199	Ala	Cys	Cys	Thr	Gly	Cys	Thr	Thr	Thr	Gly	Gly	Thr	Ala	Thr	Ala	Gly
200			355					360					365			
202	Ala	Gly	Gly	Ala	Thr	Gly	Gly	Gly	Ala	Ala	Gly	Cys	Ala	Ala	Gly	Ala
203		370					375					380				
205	Gly	Thr	Cys	Thr	Gly	Cys	Cys	Cys	Thr	Gly	Gly	Ala	Ala	Ala	Thr	Thr
206						390					395					400
208	Gly	Ala	Gly	Gly	Gly	Cys	Cys	Cys	Thr	Ala	Cys	Ala	Cys	Thr	Gly	Gly
209					405					410					415	
211	Cys	Cys	Ala	Thr	Ala	Ala	Ala	Gly	Ala	Gly	Gly	Thr	Ala	Cys	Thr	Thr
212				420					425					430		
	Cys	Cys		Gly	Gly	Gly	Ala		Thr	Ala	Cys	Ala		Thr	Thr	Cys
215			435					440					445			
	Thr	Thr	Cys	Thr	Thr	Gly		Ala	Ala	Gly	Ala		Ala	Gly	Gly	Ala
218		450					455					460				

RAW SEQUENCE LISTING DATE: 04/16/2001 PATENT APPLICATION: US/09/732,436 TIME: 11:45:51

Input Set : A:\Cura-615.app

Output Set: N:\CRF3\04162001\I732436.raw

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220 Ala Ala Thr Thr Cys Ala Gly Gly Ala Ala Cys Thr Gly Thr Ala Cys
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223 Cys Thr Gly Gly Gly Ala Gly Gly Thr Thr Gly Thr Cys Gly Thr Ala
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226 Ala Thr Gly Gly Thr Ala Ala Gly Gly Gly Ala Thr Thr Thr Thr
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229 Thr Cys Thr Thr Ala Ala Gly Cys Ala Cys Ala Ala Ala Cys Thr
            515
                                520
                                                    525
232 Thr Cys Ala Ala Gly Ala Ala Ala Ala Gly Ala Gly Ala Cys
233
        530
                            535
235 Ala Gly Ala Ala Gly Ala Ala Ala Gly Ala Gly Ala Cys Thr
236 545
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                                            555
238 Gly Cys Ala Ala Ala Ala Ala Ala Ala Thr Cys Thr Gly Gly Ala
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241 Ala Ala Ala Gly Gly Thr Ala Ala Thr Cys Thr Ala Thr Thr Ala
242
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                                    585
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247 Thr Gly
248
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251 <210> SEQ ID NO: 3
252 <211> LENGTH: 1887
253 <212> TYPE: DNA
254 <213> ORGANISM: Artificial Sequence
256 <220> FEATURE:
257 <223> OTHER INFORMATION: Description of Artificial Sequence: Curagen clone
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260 <400> SEQUENCE: 3
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263 ctaagcgtgc tgtgcccagg ggcaggcctc ctgttcgtgc caccctcgct ggaccgccgg 180
264 gcagccgage tgcggctggc agacaactte ategeeteeg tgcgccgccg cgacctggcc 240
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266 ggcgcctteg ccgacctgcg ggccctgcgt gccctgcacc tggatggcaa ccggctgacc 360
267 teactgggeg agggeeaget gegeggeetg gteaacttge geeaceteat ceteageaac 420
268 aaccagetgg cagegetgge ggeeggegee etggatgatt gtgeegagae aetggaggae 480
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271 tecegeetge acaagetgge eeggetggae atgaceteea acegeetgae cacaateeea 660
272 cccgacccac tetteteceg cetgeceetg etegecagge eceggggete geeegeetet 720
273 geoetggtge tggeetttgg egggaaceee etgeactgea aetgegaget ggtgtggetg 780
274 cgtcgcctgg cgcgggagga cgacctcgag gcctgcgcgt ccccacctgc tctgggcggc 840
275 cgctacttct gggcggtggg cgaggaggag tttgtctgcg agccgcccgt ggtgactcac 900
276 cgctcaccac ctctggctgt gcccgcaggt cggccggctg ccctgcgctg ccgggcagtg 960
277 ggggacccag agccccgtgt gcgttgggtg tcaccccagg gccggctgct aggcaactca 1020
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280 ctgactgtgg gtcccccacc acctcctcag ctagccaaca gcaccagctg tgaccccccg 1200
281 cgggacgggg atcctgatgc tctcacccca ccctccgctg cctctgcttc tgccaaggtg 1260
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RAW SEQUENCE LISTING DATE: 04/16/2001 PATENT APPLICATION: US/09/732,436 TIME: 11:45:51

Input Set : A:\Cura-615.app

Output Set: N:\CRF3\04162001\1732436.raw

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<210> 8

C
<211> 70

C
<212> DNA
C
<213> Unknown
C
<220>
C
<223> Description of Unknown Organism: Interferon Alpha
Precursor
C
<400> 8

Sul Alm / On Lun Aunman
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camrsyyssta
70

;

<210> 11

(211> 112

(212> PRT
(213) Unknown

Sun Sunnay Steet

(200> 11



VERIFICATION SUMMARY

DATE: 04/16/2001 PATENT APPLICATION: US/09/732,436 TIME: 11:45:53

Input Set : A:\Cura-615.app

Output Set: N:\CRF3\04162001\1732436.raw

L:545 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:8 L:545 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:8

L:545 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 L:623 M:258 W: Mandatory Feature missing, <220> FEATURE:

L:623 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION: